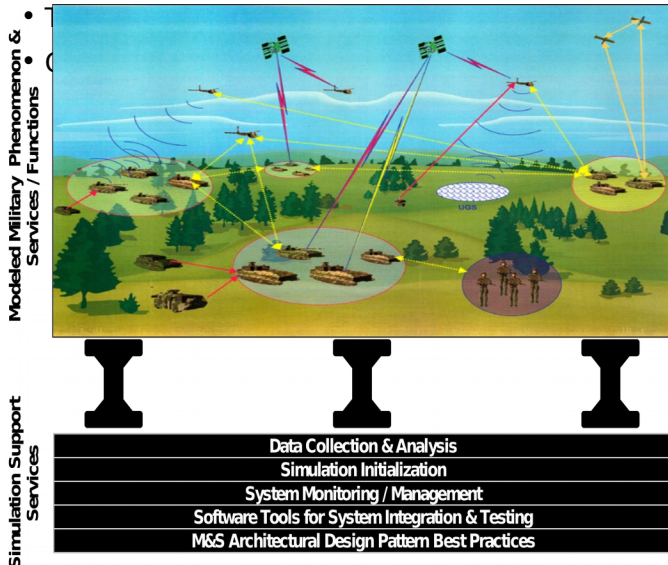


What need is the MATREX Architecture addressing?

The MATREX architecture is designed to provide a robust, scalable and multi-resolution Modeling and Simulation (M&S) environment intended to be used for

The following purposes:

- Network-Centric Warfare (NCW) analysis:
 - Information dissemination & Common Operating Picture (COP) management
 - Human Behavior Modeling
 - Multiple Fidelity & Multi-resolution functional services
 - Unmanned Systems
 - Environment and more...
- Experimentation
- Technology Tradeoffs



How is the MATREX Architecture addressing this need?

The MATREX system is a distributed computing environment. Applications are developed and maintained by disparate organizations and integrated together across distributed computing resources over a network.

The functional design and interface agreements are dictated In the System Design Description (SDD), which is captured within the MATREX Integrated Development Environment (IDE).



MATREX IDE

The MATREX IDE is a content management system that provides a collaborative program management environment including various views into the MATREX system design. The core building blocks of the design and how it accomplishes the functionality are requirements functions, modeling design decisions, components and architectural strategies.

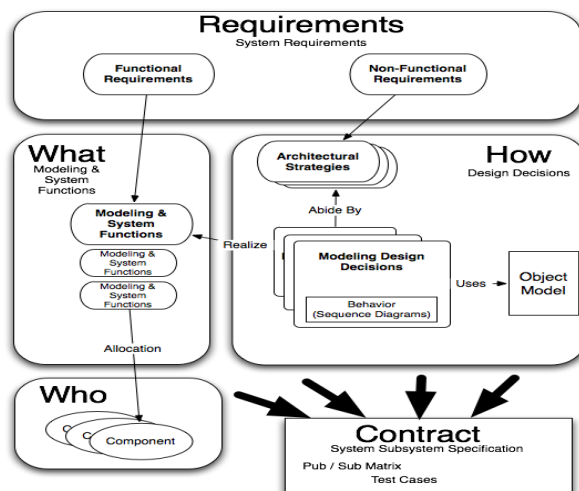
Get the right M&S technology to the right place, at the right time, for the Decision Maker and the Warfighter.

Who is benefiting from the MATREX Architecture?

- Research, Development and Engineering Command
 - RDEC's (9)
 - ✓ AMRDEC
 - ✓ AMSAA
 - ✓ ARDEC
 - ✓ ARL
 - ✓ CERDEC (Fort Belvoir and Fort Monmouth)
 - ✓ ECBC
 - ✓ NSRDEC
 - ✓ STTC
 - ✓ TARDEC
- Brigade Combat Team Modernization (formerly FCS)
- ATEC (OTC)

Benefits (Why) of using the MATREX Architecture?

- The collection of RDECOM high fidelity and high resolution models provides a collaborative and thorough modelling and simulation environment with
 - best of breed models closely integrated and managed
- Our Service-Oriented Architecture design paradigm



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Acronyms List

AMRDEC	= Aviation & Missile Research, Development and Engineering Center
AMSAA	= Army Materiel Systems Analysis Activity
ARDEC	= Armament Research, Development and Engineering Center
ARL	= Army Research Laboratory
ATC	= Advanced Test Capability
ATEC	= Army Test and Evaluation Command
BLCSE	= Battle Lab Collaborative Simulation Environment
CERDEC	= Communications-Electronics Research, Development and Engineering Center
COP	= Common Operating Picture
ECBC	= Edgewood Chemical Biological Center
FCS	= Future Combat System
IDE	= Integrated Development Environment
LSI	= Lead System Integrator
MATREX	= Modeling Architecture for Technology, Research and Experimentation
NCW	= Network Centric Warfare
NSRDEC	= Natick Soldier Research, Development and Engineering Center
OTC	= Operational Test Command
RDECOM	= Research, Development, and Engineering Command
SDD	= System Description Document
STTC	= Simulation & Training Technology Center
TARDEC	= Tank and Automotive Research, Development and Engineering Center
TRADOC	= Training and Doctrine Command

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